

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING PEDESTRIAN ACTUATED HAZARD IDENTIFICATION BEACON AND INSTALLATION OF AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTONS AT THE INTERSECTION OF MD 547 (STRATHMORE AVENUE) AND KENILWORTH AVENUE IN MONTGOMERY COUNTY, MARYLAND. MD 547 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

1. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A FLASHING MODE.

2. SPECIAL OPERATION

THE INTERSECTION WILL OPERATE AS INDICATED ABOVE, UNLESS A PUSHBUTTON IS ACTIVATED BY A PEDESTRIAN WHICH WILL STOP THE MD 547 AND KENILWORTH AVENUE APPROACHES.

CONTROLLER REQUIREMENTS

INSTALL FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.02-09 (FLAGGING OPERATION)

STANDARD NO. MD-104.02-01 (SHOULDER WORK)

STANDARD NO. MD-104.02-03 (LANE SHIFT)

STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. JEFF WENTZ, MONTGOMERY
PHONE: (301) 513-7359
ASSISTANT DISTRICT ENGINEER - TRAFFIC

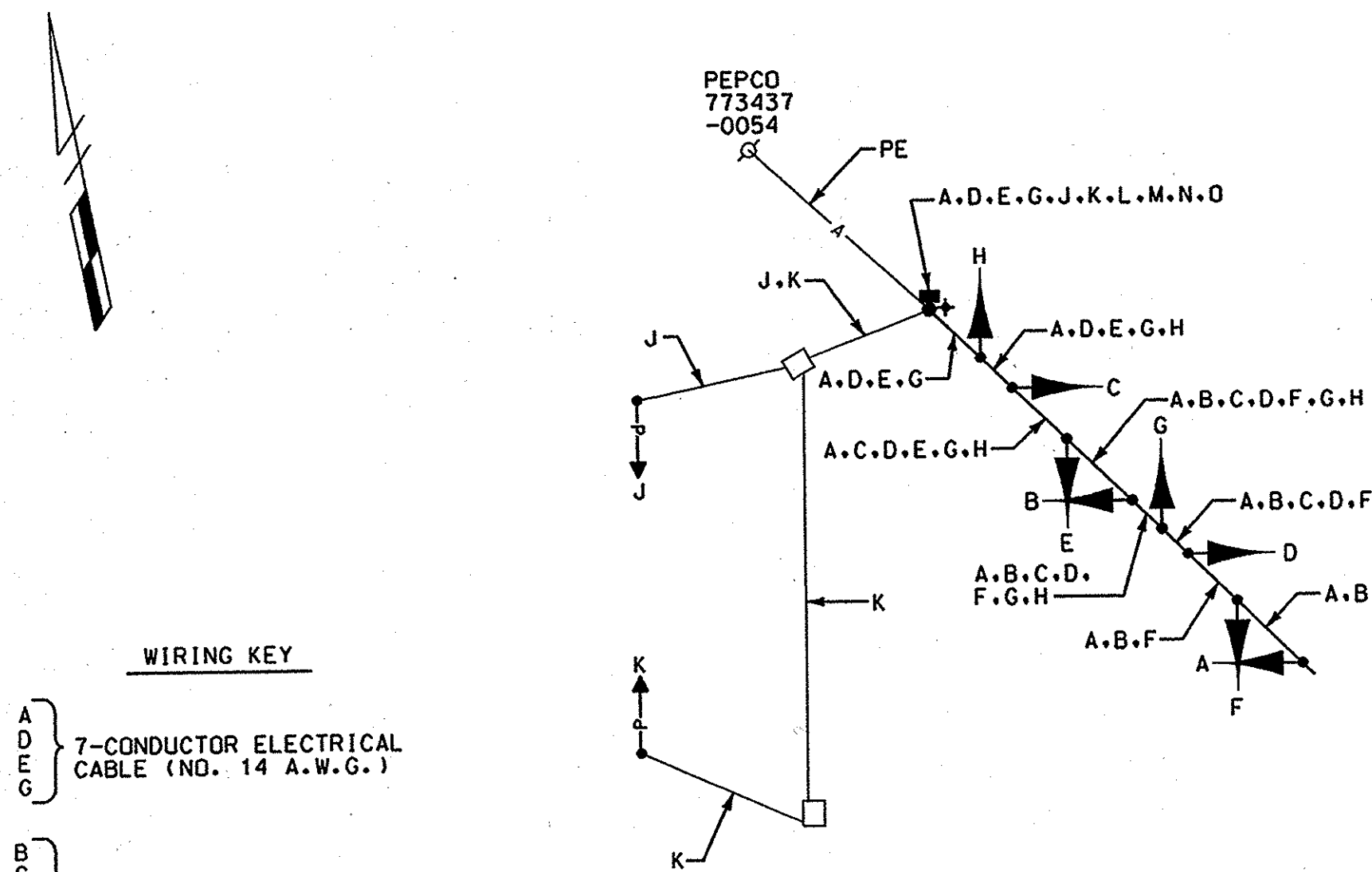
MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7305

MR. AUGIE REBISH
DISTRICT UTILITY ENGINEER
PHONE: (301) 513-7350

MR. WILHELM DERMINASSIAN
MONTGOMERY COUNTY TMC
PHONE: (240) 777-8795

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM



WIRING KEY

A, D, E } 7-CONDUCTOR ELECTRICAL
CABLE (NO. 14 A.W.G.)

B, F, H, J, K } 5-CONDUCTOR ELECTRICAL
CABLE (NO. 14 A.W.G.)

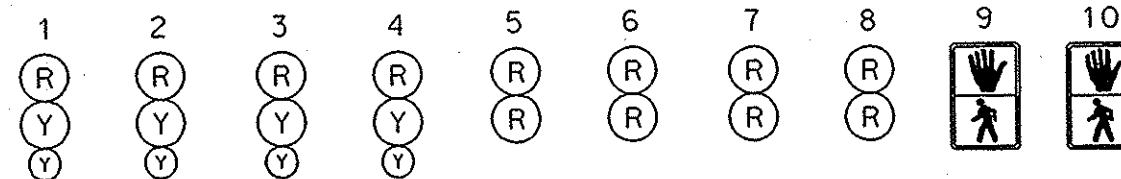
L } STRANDED BARE COPPER
GROUND WIRE (NO. 6 A.W.G.)

PE - PROPOSED UNDERGROUND
ELECTRICAL SERVICE

+ - 3/4 IN. X 10 FT. GROUND ROD

M, N, O } 1-CONDUCTOR ELECTRICAL
CABLE (NO. 4 A.W.G.)

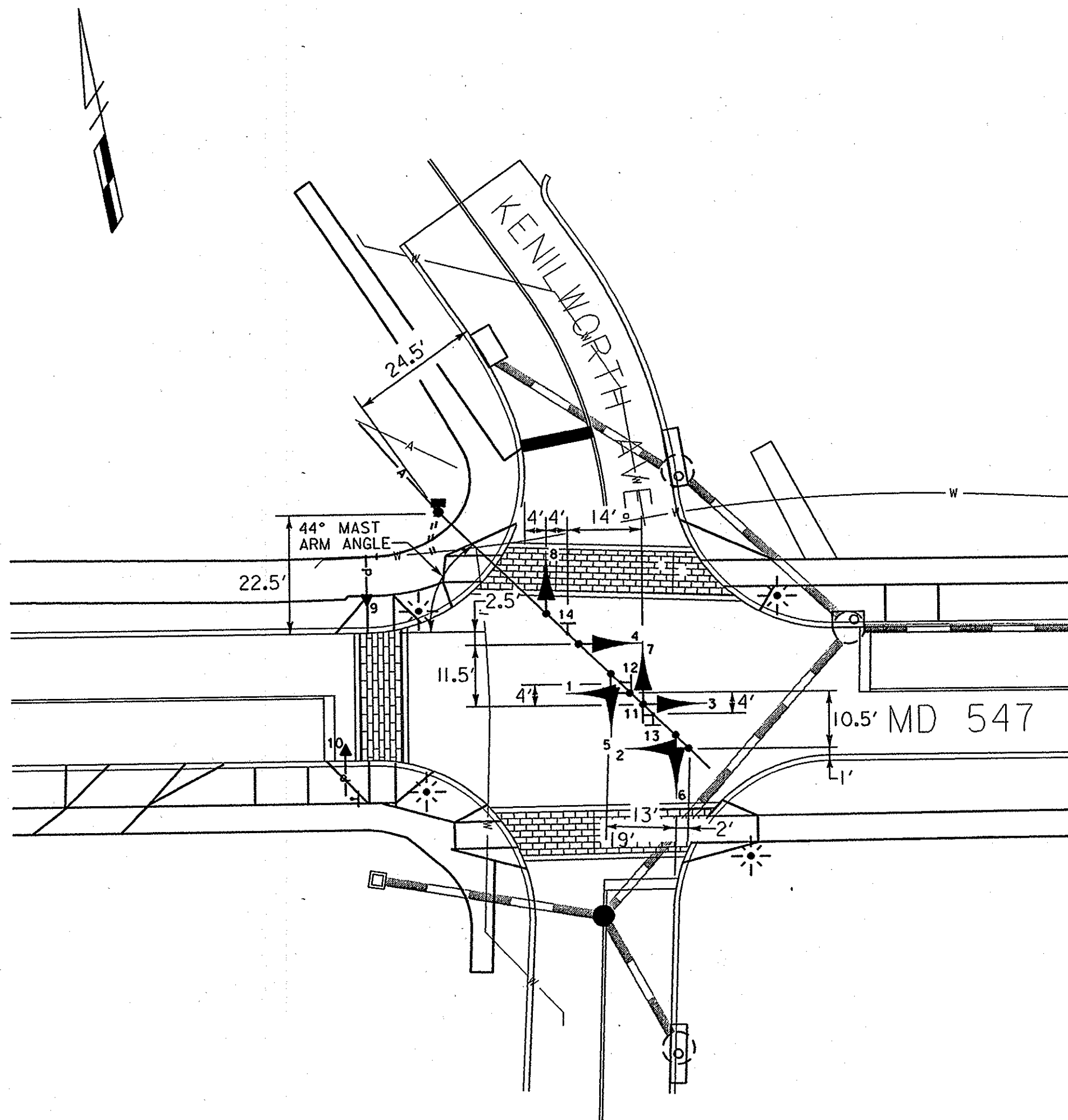
PHASE CHART



NORMAL OPERATION	8° FL/Y	8° FL/Y	8° FL/Y	8° FL/Y	FL/R	FL/R	FL/R	FL/R	DW	DW	
PEDESTRIAN ACTUATED OPERATION	QUICK 8° FL/Y	QUICK 8° FL/Y	QUICK 8° FL/Y	QUICK 8° FL/Y	R	R	R	R	DW	DW	
PED. CLEARANCE	12° Y	12° Y	12° Y	12° Y	R	R	R	R	WK	WK	
PED ACT. CHANGE	R	R	R	R	R	R	R	R	FL/DW	FL/DW	

DIMENSION DIAGRAM

SCALE: 1" = 20'



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9000	1 EACH	MAST ARM POLE (15 FT. T) AND 70 FT. MAST ARM
9044	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET
9571	30 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH S1-1 SIGN FYG (36 IN. x 36 IN.) - MAST ARM MOUNT - 2 EACH R10-11a MOD (24" x 36") - MAST ARM MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	3 C.Y.	TEST PIT EXCAVATION
8002	12 EACH	12 IN. RED OR GREEN LED SIGNAL HEAD SECTION
8003	4 EACH	12 IN. YELLOW LED SIGNAL HEAD SECTION
8005	2 EACH	16 IN. PEDESTRIAN SIGNAL HEAD SECTION
8006	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8011	4 EACH	8 IN. LED TRAFFIC SIGNAL HEAD SECTION
8014	2 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON
8028	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT AS PER ASSIGNMENT
8035	30 L.F.	DISCONNECT, PULL-BACK AND REROUTE CABLES
8040	5 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
8043	25 L.F.	NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8049	8 L.F.	3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8055	1 EACH	ELECTRICAL UTILITY SERVICE EQUIPMENT (120/240 V. 1 PHASE 3 WIRE SYSTEM)
8056	45 LF	ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G. - THHN/THWN)
8063	8 S.F.	INSTALL GROUND MOUNTED SIGN
8064	30 S.F.	INSTALL OVERHEAD SIGN
8070	1 EACH	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
8078	90 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8079	290 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8082	1 EACH	INSTALL STEEL POLE AND SINGLE MAST ARM
8087	1 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT
NEG	1 EACH	PAINT TRAFFIC SIGNAL STRUCTURE

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET

MD 547 (STRATHMORE AVE.) & KENILWORTH AVE.



Whitman, Reardon
and Associates, LLP

801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

DRAWN BY: B. DONOWAY	F.A.P. NO. S.H.A. NO. AT7825185	TS NO. TS-3723C	SHEET NO. 2 OF 2
CHECKED BY: N. LEARY	COUNTY: MONTGOMERY	T.I.M.S. NO. H434	
SCALE: NONE	LOG MILE: 15054700.67		
DATE: 2/27/2006			

m:\31492132\h434sd02.dgn